

What is claimed is :

1. An assembled structure of a plurality of laminated plates having high thermal conductivity, the assembled structure comprising:

A plurality of laminated plates, each having with a circular opening at the center of the plate,

A plurality of projection parts extend from an outer periphery of the plate toward the circular opening for forming stator magnetic poles,

The plurality of laminated plates, each having a length and a shorter width and notches at the edge on the center line of the direction of the length, and each being laminated alternatively with an adjacent abutting plate such that the length of one plate is perpendicular to the width of the adjacent plate to form a shape of a cross, with the excess length of one plate overhanging beyond the width of an adjacent plate, the overhanging portions serving to dissipate heat from the plates.

2. The assembled structure according to claim 1, wherein the laminated plates are rectangular plates.

3. The assembled structure according to claim 1, wherein each plate is a magnetic sheet and the assembled structure forms a magnetic core.

4. The assembled structure according to claim 3, wherein the magnetic core is applied to a stator core of a rotary electric machine.

5. The assembled structure according to claim 4, wherein the rotary electric machine is a stepping motor.

6. The assembled structure according to claim 1, wherein the notch being a triangle shape.

7. The assembled structure according to claim 1, wherein the notch being a semicircle shape.

8. The assembled structure according to claim 1, wherein the notch being a rectangular shape.